

FIG. 1
(PRIOR ART)

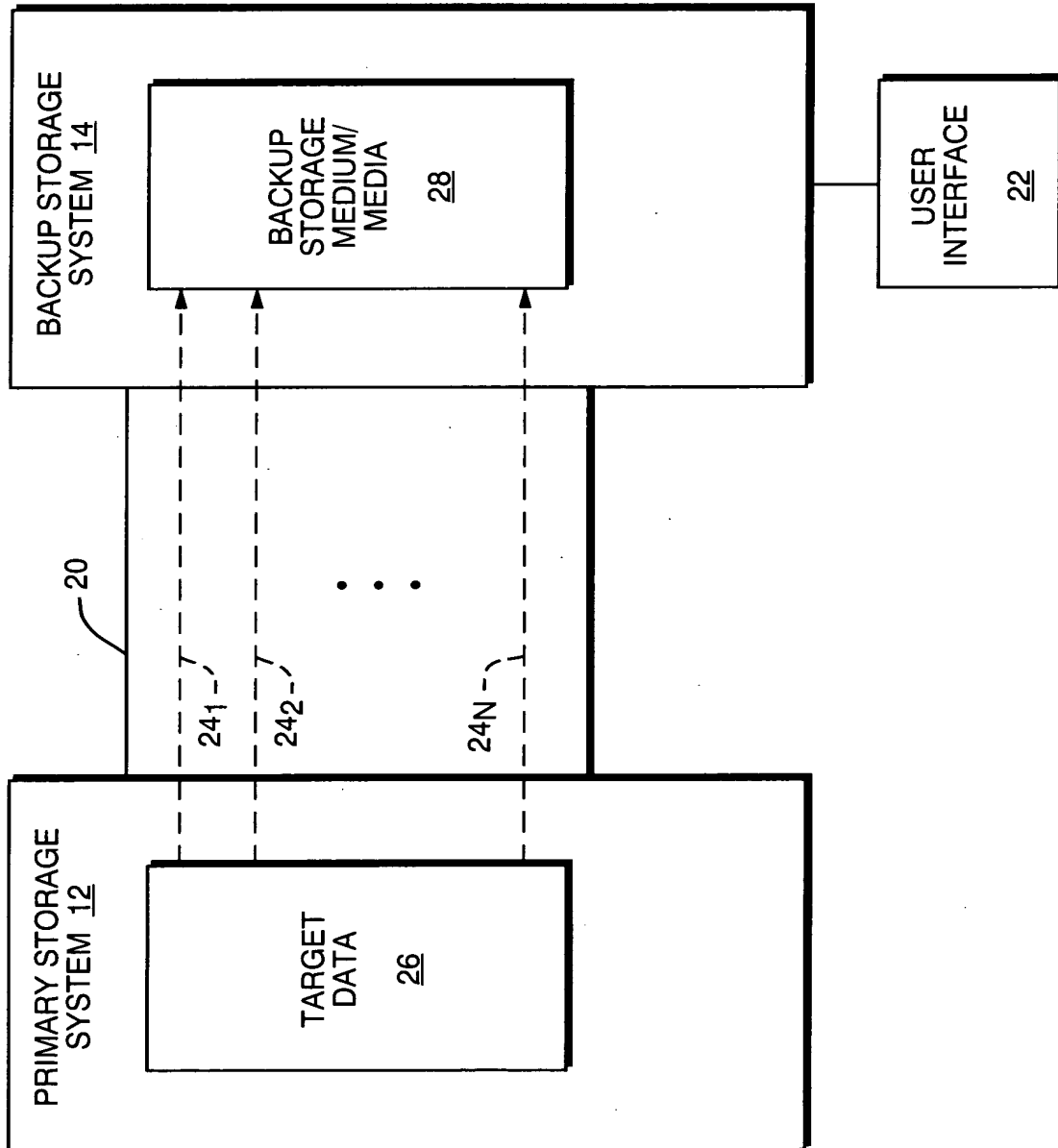
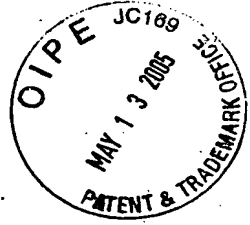


FIG. 2
(PRIOR ART)

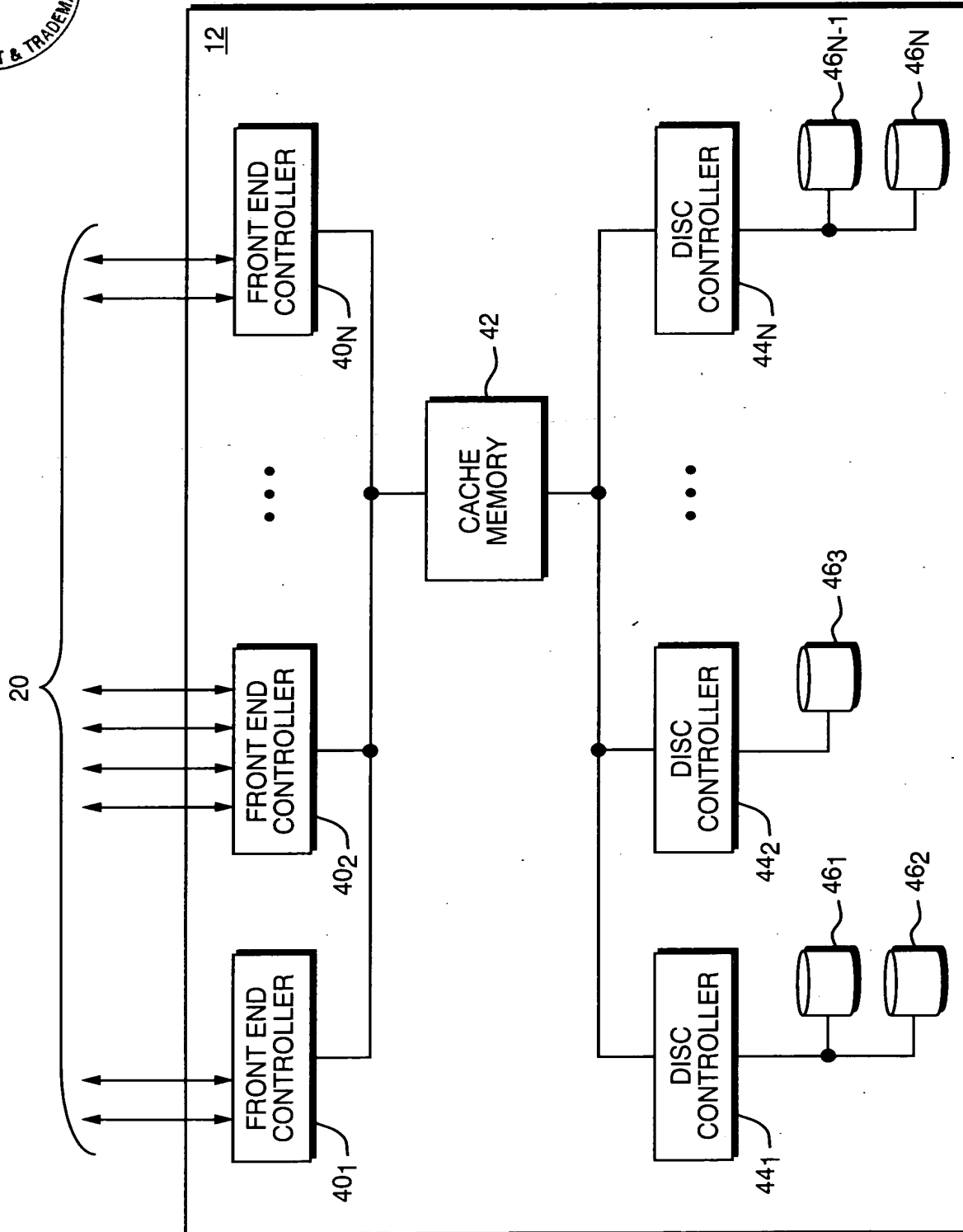
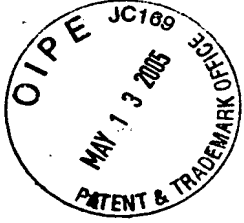


FIG. 3
(PRIOR ART)

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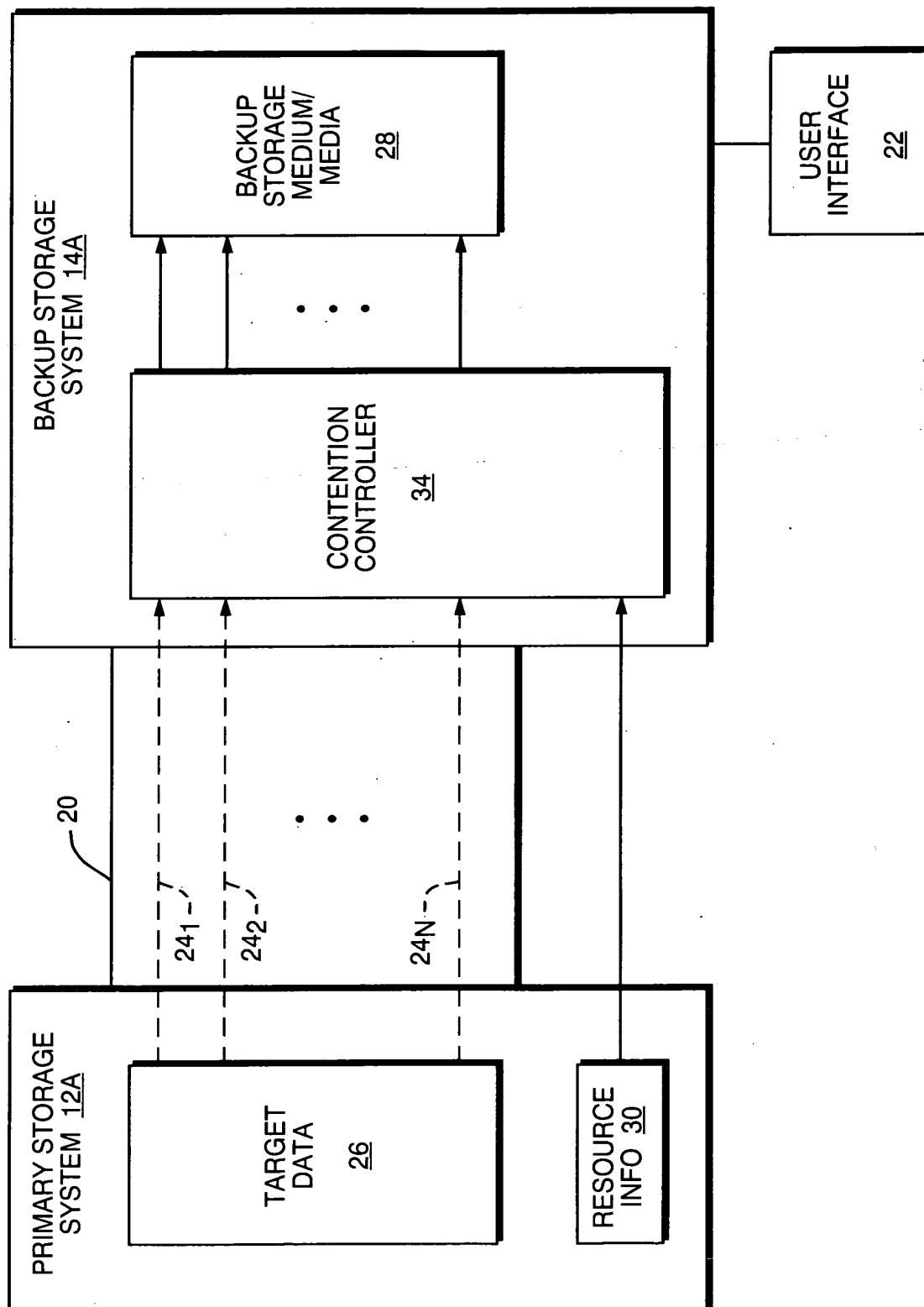
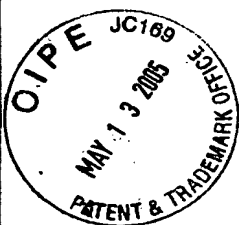


FIG. 4

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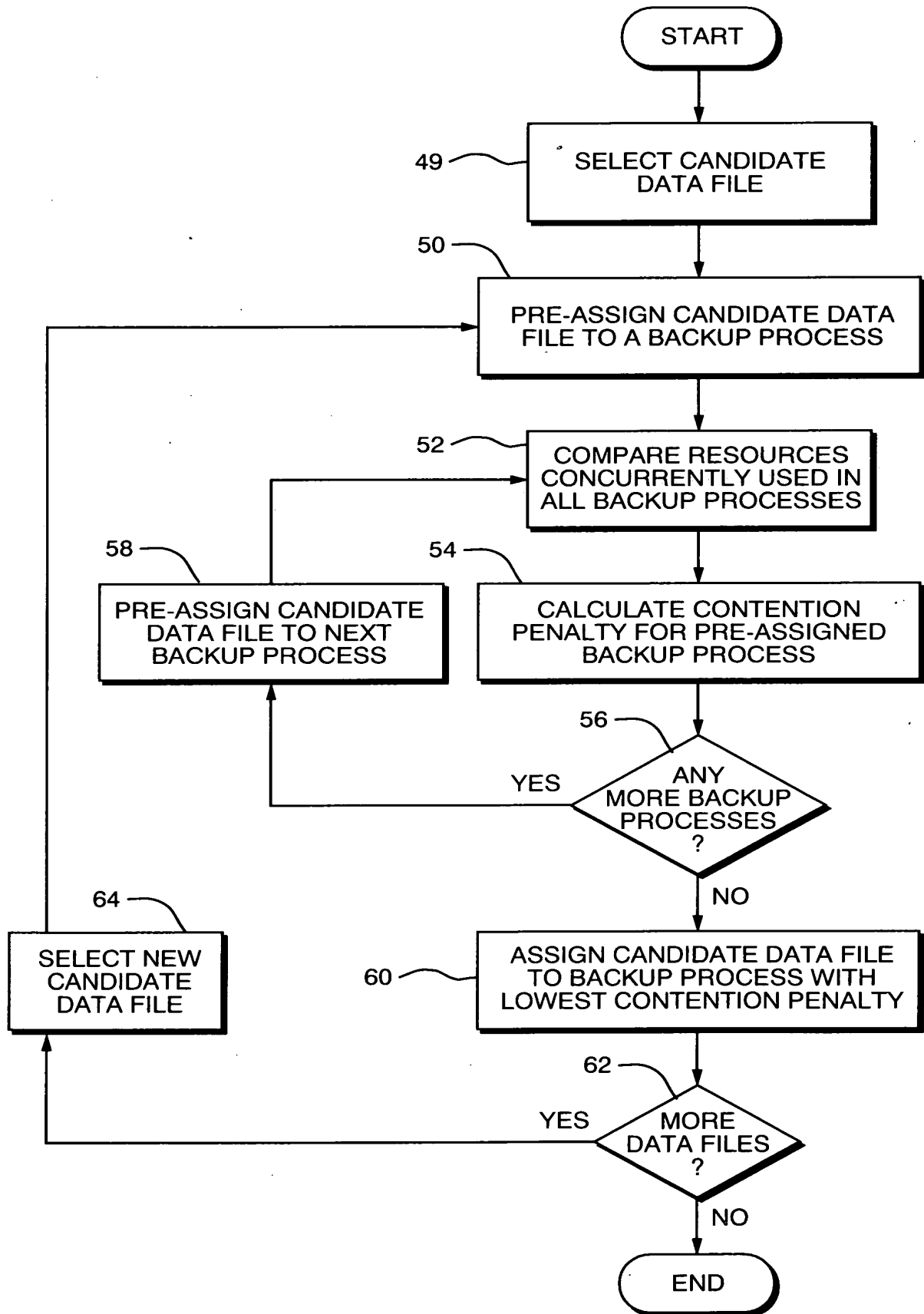
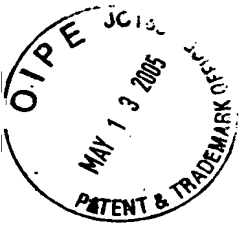


FIG. 5

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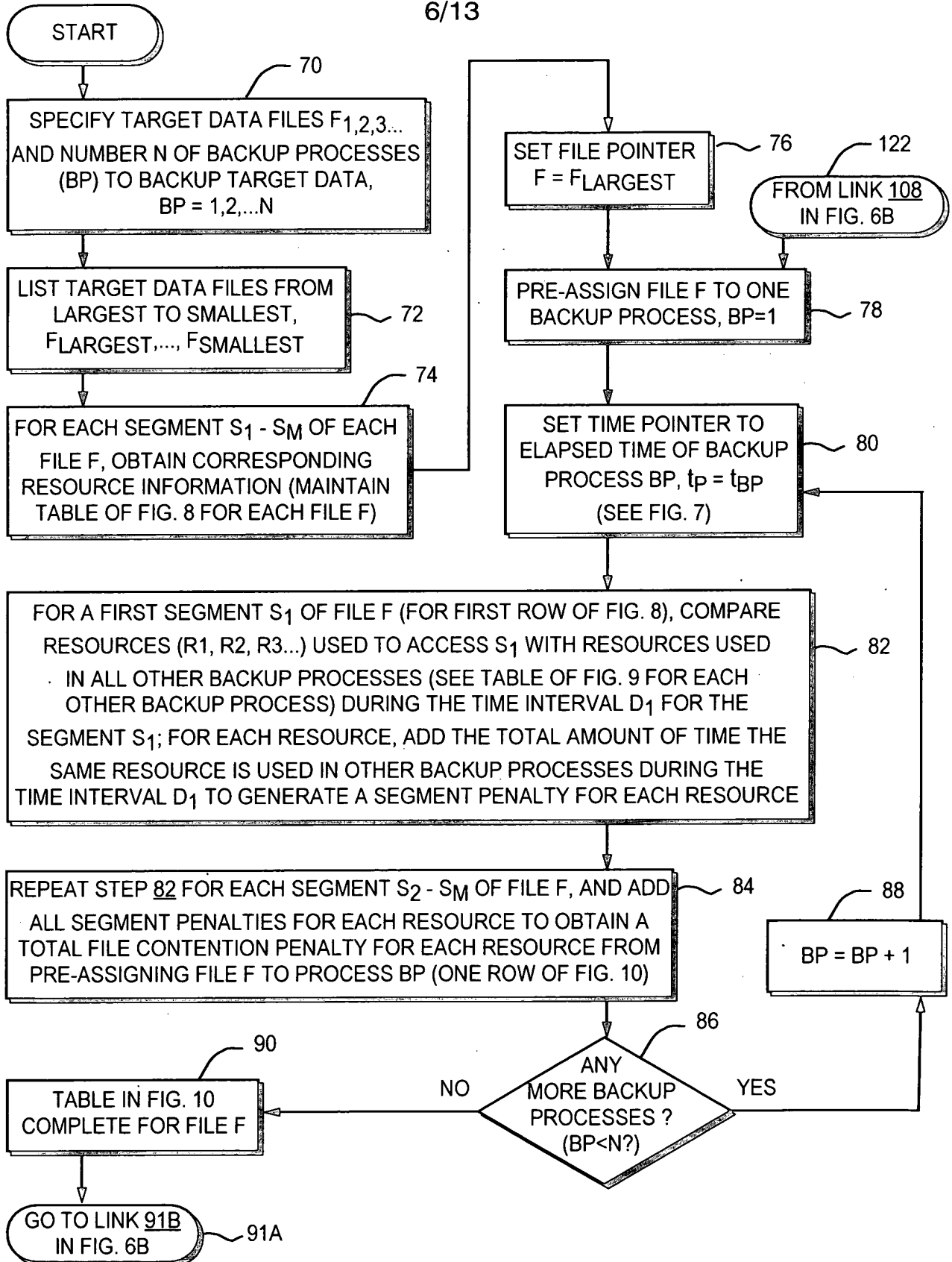


FIG. 6A

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 Filing Date: December 21, 1000 / EMC-99-042
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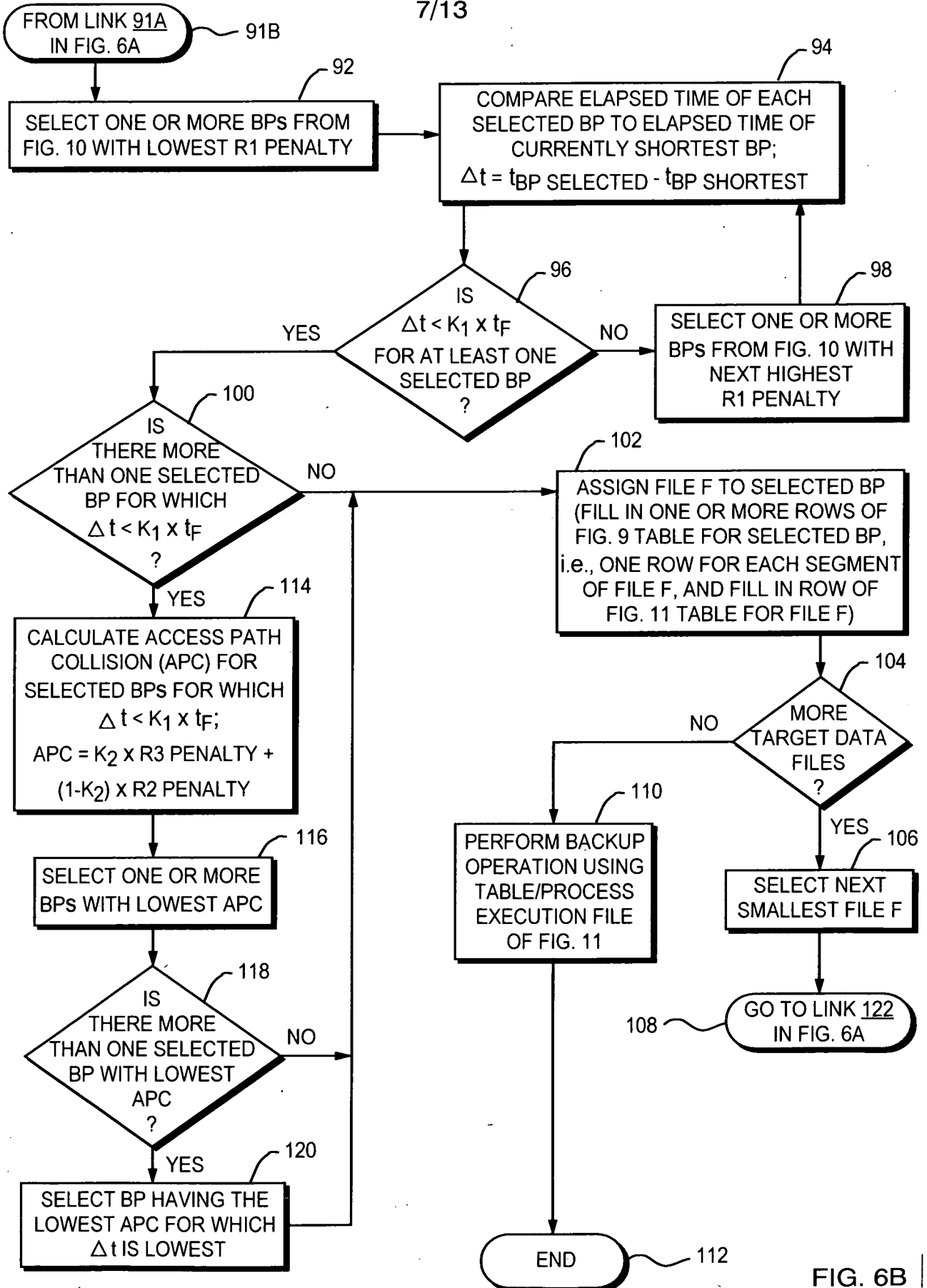


FIG. 6B

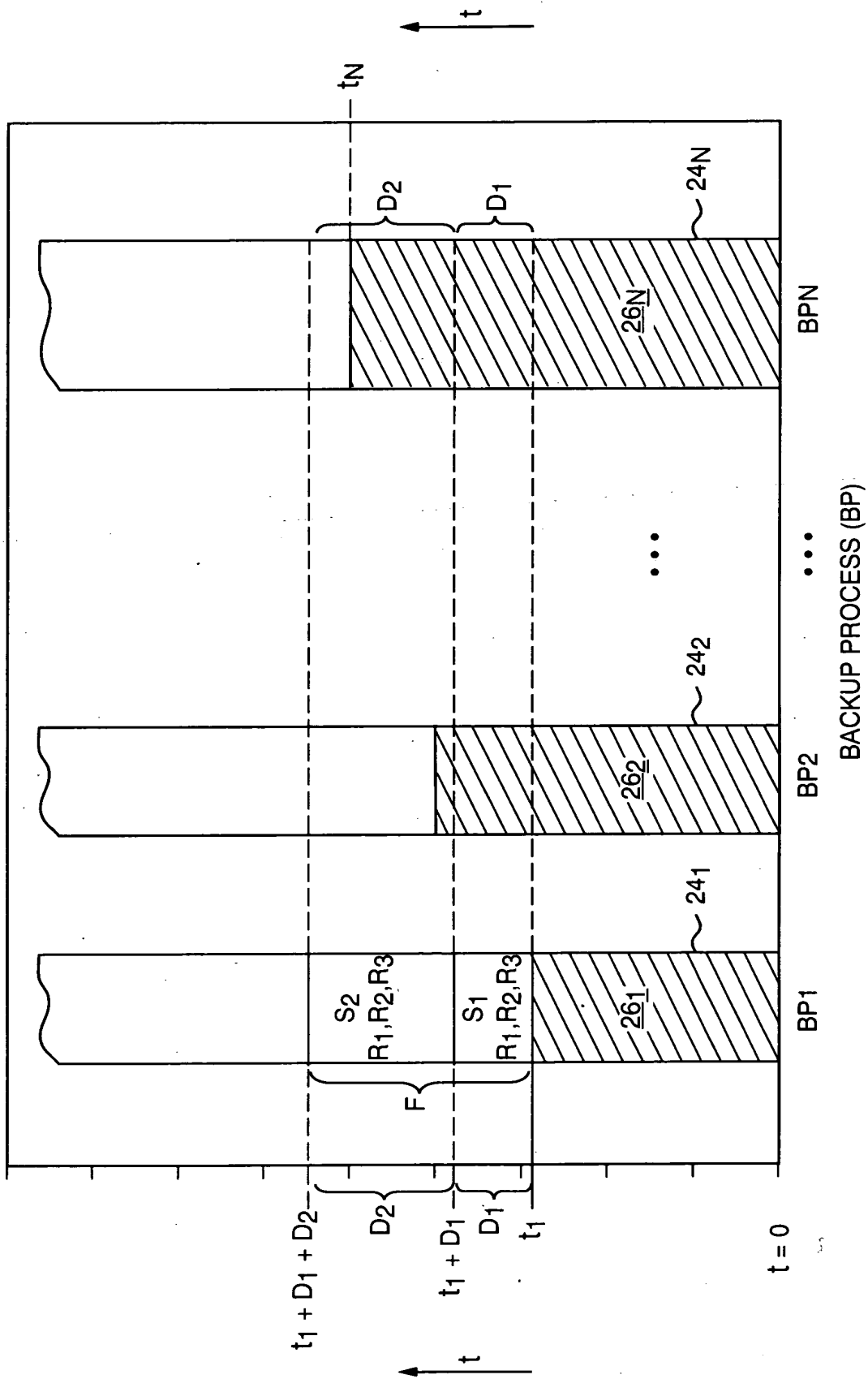
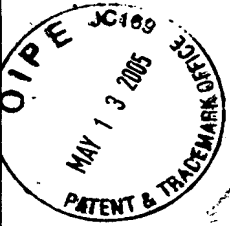
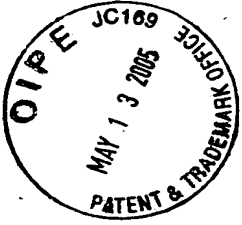


FIG. 7

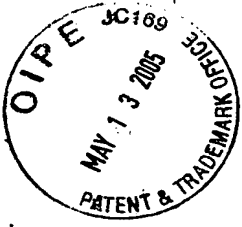
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SEGMENT/ DURATION	SPINDLE (R1) ID	DISC CONTROLLER (R2) ID	FRONT END CONTROLLER (R3) ID
S1/10ms	2	3	1
S2/20ms	6	2	2
S3/D3			
S4/D4			
• • •			
SM/DM			

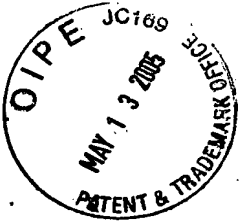
FIG. 8

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TIME t(ms)	SPINDLE ID (R1)	DISC CONTROLLER ID (R2)	FRONT END ID (R3)
0			
D1			
D1 + D2			
D1 + D2 + D3			
•			
•			
•			
DM-2 + DM-1 + DM			

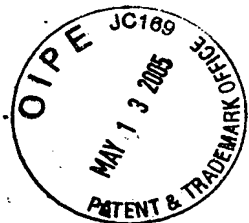
FIG. 9



BACKUP PROCESS (BP)	TOTAL SPINDLE (R1) PENALTY	TOTAL DA (R2) PENALTY	TOTAL FRONT END (R3) PENALTY
1			
2			
3			
• • •	• • •	• • •	• • •
N			

FIG. 10

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FILE NAME	BACKUP PROCESS	ORDER IN PROCESS
FLARGEST		
...
FSMALLEST		

FIG. 11

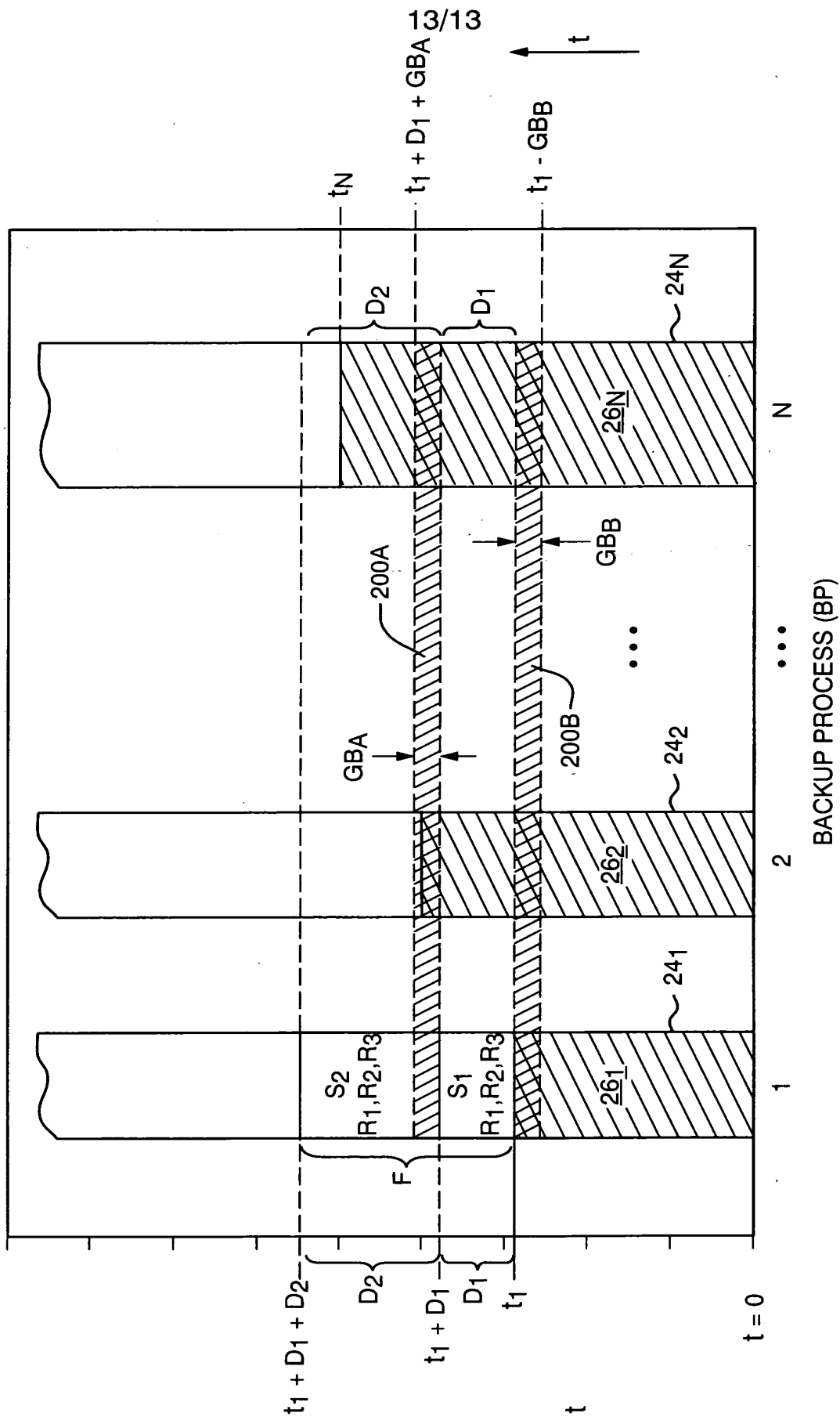
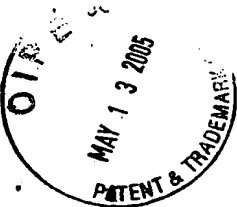


FIG. 12